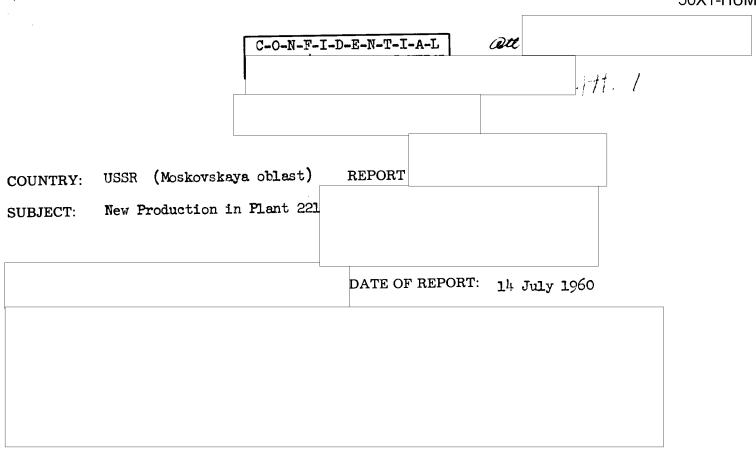
NFORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within	the meaning	of the	Espionage La	ws, T	lue
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		E-N-T-I-A-L	50X1-HUM
BJECT	USSR (Moscow Oblast) Internal Grinding Machine Plant 221, Moscow	REPORT  DATE DISTR. 29 September  NO. PAGES  1	1960
ATE OF FO. ACE &			50X1-HUI
TE ACO	IS UNEVALUATED INFORMATION. SOURCE GRADINGS AR	E DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE	50X1-HUM
	Moscow  Attachment 1: This six-page report devarious plant shops and gives the number of assigned to each shop. It also lists with a brief description of each personant plant. In this two-page report are do No. 2-a manual wire cutter and a certiflange is also sketched. Employees the were for military use.	eals with the functions of the ber of inspection personnel (OTK) supervisory personnel of the on named.  ers was that Plant 221 was a military escribed two items processed in Shop ain type of flange or bolt. The	у
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## NEW PRODUCTION IN PLANT 221

the Internal Grinding Machine Plant (No. 221)

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about 55 percent of the plant's

3,000 member work force were male.

2. A machine shop containing an unknown number of new Soviet make vertical boring and turning lathes, planers, and other machines was located on the first floor of an unfinished building whose construction was initiated in 1955. It was rumored that the plant labor force would be increased upon the completion of this new two-story building which

Production Changes

shops at the plant.

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grinding and threading machines, polishing machines, ball bearing grinding machines, special machines ordered through the Machine Construction

was about 70 by 30-40 meters in area dimension. There were no secret

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Ministry and a limited amount consumption.  10 to 20 threading machines m of internal grinding machines submitted designs for special and the engineer-constructors various component parts, which to Shops 1 and 2. All bluepressions	in 1955-1956, the ponthly, and a slightly The Machine Construmachines to the OKB of the plant made bluch were copied by draft	lant produced larger number ction Ministry Plant 221, eprints of the smen and given	t <b>ie</b> 50X1-H
(fnu). In 1954 or 1955 Lyure; precision coordinated vertical and five the tolerance on component paras one-two microns. as two-three meters in length height, 0.50-0.60 centimeters handles to move the drills (or vertical drill). There were to permit movement of parts to nifying optical sights, made infying lenses were set in red frame, and had special covers lenses were about 35-40 millinging power unknown). The	s an assembly shop for a vertical boring mac er the direction of en y supervised the prodult and horizontal boring e of these units were the coordinate the coordinate the coordinate the coordinate in width. The maching plates, placed on top o be drilled. The mac in the plant optical servelvet within a black also lined with red we meters in diameter (the machine could bore holes.	nine which was gineer Lyurey ction of a high g machine (sic) produced in 1950 coring machine te boring machine half meters in es had turn one for the of 75 rollers nine had magnop. The magnop. The magnop clustic elvet. The lckness and magnop sup to one	5. ne 50X1-HUN
	20-25 millimeters long hers were 18 millimete as always kept at a te	with a diameters long with a the tolerance mperature of	
20 degrees centigrade in order of the steel.  plant in the entire USSR which	in 1953 Plant 221	was the only	50X1-H
	<b>.</b>		
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## Shop Organization and OTK Strength

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the numb	the functions of the following plant shops and the number of OTK personnel assigned to each section				
Shop No.	Function	Equipment	Personnel	OTK Section	50X1-HUM
ı	machine shop prod- ucing gears, shafts, spindles, housings, bushings, and var- ious components	same as No. 2, 10 milling machines, 10 vertical and horizontal lathes, six automatic turret lathes, five polishing-grinding machines, four planing machines, three boring machines	200	one senior inspector, six inspectors	
2	same as Shop No. 1 only different type details		200	same as No. 1	
3	produced cylindrical shaped tractor parts			four inspectors	
4	assembled internal grinding machines			one senior inspector, seven inspector	s
5	produced and assemble coordinated boring ma			five OTK precision specialists	
6	produced kitchenware, cutlery	,		two or three inspectors	
7	chrome-nickel plating	3		same as Shop 6	

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Shop No.	Function	Equipment	Personn	el OTK Section	
8	instrument shop			one senior inspector, fou inspectors	r
9	electrical repai	rs		none	
10	optical shop			one senior inspector, fou inspectors	r
11	molding and carp	entry		two inspectors	
12	foundry			unknown	
all opti products formance	cal lenses, preci were checked. I and precision of ever saw military	affed by about 100 sion instruments, ersonnel in the ot finished machines personnel among the simple of the simple	and metals and ther laboratory	foundry tested the per-	50X1-HUN
Jrk insp	ectors who were a	all civilians.			
norm. I	fulfillment, howen n both 1953 and latic line (sic)	ercent was the high ever the plant as a 1954 Shop No. 3 tur valued at six mil eived an extra prem	a whole did not rned out tracto lion rubles ar	t fulfill its or parts nd as a result	
Raw Mate	rials				
sheets, round for					
machiner	2 meters x 1 mete orms 20-30 millime aw materials were	5 steel, a very har x 1-3 millimeter eters in diameter, laminated glass (	rs in size, and three-four med	d in grooved ters in length.	50X1-HUM
machiner	2 meters x 1 mete orms 20-30 millime aw materials were	er x 1-3 millimeter eters in diameter,	rs in size, and three-four met plastiglas) and	d in grooved ters in length.	50X1-HUM 50X1-HUM

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	Shipping and Marking	
LO.	The finished machines were shipped in unpainted pine boxes, about two- three x three-three and one-half x 0.60 meters. The boxes bore the following markings:	
	sender weight (total) weight of machine address (name of town or country only)	
	saw crates into which coordinated boring machines were being placed. These crates were addressed to China, Budapest, Belgrade.  Leningrad, Kiev, or Moscow.	50X1-HUM
	It was rumored in the plant that most of the coordinated boring machines were shipped outside of the USSR.	50X1-HUM
	Relations with other Facilities	
u.	an alpine mountain climbing club.  membership was restricted to machine construction plant workers.  At the mountain climbing base workers from Kharkov, Minsk,  Tiflis, Orzhonikidze, and other Moscow machine construction plants  (names or numbers of plants unknown). All members of  alpine club were civilians. the Armed Forces  had separate alpine clubs.	50X1-HUM 50X1-HUM 50X1-HUM
12.	Civil Defense Training in Plant 221  In 1954-1955 officials of the Communist Party gave civil defense lectures to Plant 221 employees. These lectures were held about twice a month during lunch time and lasted about one-half hour. Attendance was not mandatory but foremen encouraged a large attendance.  Also in 1954-55 the plant telephone lines which were above ground were removed from the telephone poles and placed underground.	50X1-HUM
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Supervisory Personnel		
the following	ng plant supervisory personnel:	50 <b>X</b> 1-l
Yakovlev (fnu)	was the plant director.	
		50X1-l
Mo¥seyev (fnu)	was the chief technologist.	
		50 <b>X</b> 1-
Kalika (fnu)		
was at one time cl 1953 to an unknown plant.	hief of Shop No. 3, but was transferred in	50X1-
Minchonov (fnu) office up to 1953-1954, v	was the chief of the construction when he was transferred to an unknown plant.	50X1-
Bron (fnu),	was another constructor.	50X1-H
Shashkov (fnu),	, was the chief of the machine shop No. 2.	50X1-
Ralnikov (fnu)	was chief of Shop No. 5,	
Belikov (fnu), shop.	was the technologist of the instrument	
Yanin (fnu)	was chief of the optical shop.	50X1-
Nil Somenovich Osnovinsk	was chief of the plant OTK.	
Popov (fnu), was deputy chief of Shop	No. 3.	50X1-
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Rybakov (fnu), was chief of one of th	e shops, possibly Shop No. 1.	
Lyurey (fnu), Chief of	Shop No. 3, was an engineer-constructor	50X1-HUM

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	C-O-N-F-I-I	D-E-N-T-I-A-L	50X1-HUN
	FIELD INFORM	MATION REPORT	
COUNTRY SUBJECT:	USSR (Moskovskaya oblast)  Internal Grinding Machine Plant (221), Moscow		
		DATE OF REPORT: 9 June 1960	
			50X1-HUN
1.		HINE PLANT (221), MOSCOW Internal Grinding Machine Plant	5004 1111
	Production		50X1-HUN
2.	located on Paveletskaya nabe Moscow, was a military plant	this plant, which was erezhnaya in Kirovskiy rayon.	50X1-HUN
	for manual wire-cutter	rs (nozhi). The materials for to Shop No. 2 by Shop No. 1. ters were ground and polished by lod. The shears were not	50X1-HUN
	attached to the cutters was certain that this was a mili	unknown No one was itary order, but nevertheless D-E-N-T-I-A-L	50X1-HUN
			50X1-HUN

C-O-N-F-I-D-E-N-T-I-A-L -2-	
the workers talked about the product as though it were for military use. Work on this item was also conspicuously well paid, i.e. three rubles per pair if completed in 20 minutes.	
	50X1-HUM
3. Another item processed in Shop No. 2 was a type of flange (or bolt), with a two centimeter square base, produced in two lengths; 40 centimeters and about 60 centimeters, as illustrated below. This was a standing order, and many of the workers of Shop No. 2 were engaged in the manufacture	đ
of these items. About 800 such flanges, or bolts (flantsy) were ground and polished during each month order was also labeled as a military order by the shop workers.	50X1-HUM
workers.	50X1-HUM
Flange or bolt	
60 centimeters	
Side vi	ew
O Viewed	from
above	
2 cm.	
C-O-N-F-I-D-E-N-T-I-A-L	50X1-HUM